
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=10; day=17; hr=18; min=8; sec=55; ms=58;]

Validated By CRFValidator v 1.0.3

Application No: 10090879 Version No: 2.0

Input Set:

Output Set:

Started: 2008-09-15 17:10:18.961 **Finished:** 2008-09-15 17:10:19.092

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 131 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 3

Actual SeqID Count: 3

SEQUENCE LISTING <110> SOMERS, WILLIAM S. STAHL, MARK SULLIVAN, FRANCIS X. <120> CRYSTAL OF A GDP-FUCOSE SYNTHETASE POLYPEPTIDE <130> W2025-701740 <140> 10090879 <141> 2002-03-04 <150> 09/373,432 <151> 1999-08-13 <150> 60/096,452 <151> 1998-08-13 <160> 3 <170> PatentIn version 3.5 <210> 1 <211> 338 <212> PRT <213> Escherichia coli <400> 1 Met Arg Val Leu Val Thr Gly Gly Ser Gly Tyr Ile Gly Ser His Thr 5 1.0 Cys Val Gln Leu Gln Asn Gly His Asp Val Ile Ile Leu Asp Asn 20 25

Leu Cys Asn Ser Lys Arg Ser Val Leu Pro Val Ile Glu Arg Leu Gly
35 40 45

Gly Lys His Pro Thr Phe Val Glu Gly Asp Ile Arg Asn Glu Ala Leu 50 55 60

Met Thr Glu Ile Leu His Asp His Ala Ile Asp Thr Val Ile His Phe 65 70 75 80

Ala Gly Leu Lys Ala Val Gly Glu Ser Val Gln Lys Pro Leu Glu Tyr \$85\$ 90 95

Tyr Asp Asn Asn Val Asn Gly Thr Leu Arg Leu Ile Ser Ala Met Arg 100 105 110

Ala Ala Asn Val Lys Asn Phe Ile P	Phe Ser Ser Ala Thr Val Tyr
115 120	125
Gly Asp Asn Pro Lys Ile Pro Tyr V	Val Glu Ser Phe Pro Thr Gly Thr
130 135	140
Pro Gln Ser Pro Tyr Gly Lys Ser L	ys Leu Met Val Glu Gln Ile Leu
145 150	155 160
Thr Asp Leu Gln Lys Ala Gln Pro A	Asp Trp Ser Ile Ala Leu Leu Arg
165	170 175
Tyr Phe Asn Pro Val Gly Ala His P	Pro Ser Gly Asp Met Gly Glu Asp 85 190
Pro Gln Gly Ile Pro Asn Asn Leu M	Met Pro Tyr Ile Ala Gln Val Ala
195 200	205
Val Gly Arg Arg Asp Ser Leu Ala I	le Phe Gly Asn Asp Tyr Pro Thr
210 215	220
Glu Asp Gly Thr Gly Val Arg Asp T	Tyr Ile His Val Met Asp Leu Ala
225 230	235 240
Asp Gly His Val Val Ala Met Glu I	ys Leu Ala Asn Lys Pro Gly Val
245	250 255
His Ile Tyr Asn Leu Gly Ala Gly V	val Gly Asn Ser Val Leu Asp Val
260 2	270
Val Asn Ala Phe Ser Lys Ala Cys G	Gly Lys Pro Val Asn Tyr His Phe
275 280	285
Ala Pro Arg Arg Glu Gly Asp Leu P	Pro Ala Tyr Trp Ala Asp Ala Ser
290 295	300
Lys Ala Asp Arg Glu Leu Asn Trp A	arg Val Thr Arg Thr Leu Asp Glu
305 310	315 320
Met Ala Gln Asp Thr Trp His Trp G	Gln Ser Arg His Pro Gln Gly Tyr
325	330 335

<210> 2

<211> 317

<212> PRT

<213> Escherichia coli

<400> 2

Ile Arg Arg Gln Leu Glu Gln Arg Gly Asp Val Glu Leu Val Leu Arg 20 25 30

Thr Arg Asp Glu Leu Asn Leu Leu Asp Ser Arg Ala Val His Asp Phe 35 40 45

Phe Ala Ser Glu Arg Ile Asp Gln Val Tyr Leu Ala Ala Ala Lys Val 50 55 60

Gly Gly Ile Val Ala Asn Asn Thr Tyr Pro Ala Asp Phe Ile Tyr Gln 65 70 75 80

Asn Met Met Ile Glu Ser Asn Ile Ile His Ala Ala His Gln Asn Asp 85 90 95

Val Asn Lys Leu Leu Phe Leu Gly Ser Ser Cys Ile Tyr Pro Lys Leu 100 105 110

Ala Lys Gln Pro Met Ala Glu Ser Glu Leu Leu Gln Gly Thr Leu Glu
115 120 125

Pro Thr Asn Glu Pro Tyr Ala Ile Ala Lys Ile Ala Gly Ile Lys Leu 130 135 140

Pro Thr Asn Leu Tyr Gly Pro His Asp Asn Phe His Pro Ser Asn Ser 165 170 175

His Val Ile Pro Ala Leu Leu Arg Arg Phe His Glu Ala Thr Ala Gln 180 185 190 Asn Ala Pro Asp Val Val Val Trp Gly Ser Gly Thr Pro Met Arg Glu 195 200 205

Phe Leu His Val Asp Asp Met Ala Ala Ala Ser Ile His Val Met Glu 210 215 220

Leu Ala His Glu Val Trp Leu Glu Asn Thr Gln Pro Met Leu Ser His 225 230 230 235 240

Ile Asn Val Gly Thr Gly Val Asp Cys Thr Ile Arg Glu Leu Ala Gln
245 250 255

Thr Ile Ala Lys Val Val Gly Tyr Lys Gly Arg Val Val Phe Asp Ala 260 265 270

Ser Lys Pro Asp Gly Thr Pro Arg Lys Leu Leu Asp Val Thr Arg Leu 275 280 285

His Gln Leu Gly Trp Tyr His Glu Ile Ser Leu Glu Ala Gly Leu Ala 290 295 300

Ser Thr Tyr Gln Trp Phe Leu Glu Asn Gln Asp Arg Phe 305 310 315

<210> 3

<211> 314

<212> PRT

<213> Homo sapiens

<400> 3

Met Arg Ile Leu Val Thr Gly Gly Ser Gly Leu Val Gly Lys Ala Ile 1 5 10 15

Gln Lys Val Val Ala Asp Gly Ala Gly Leu Pro Gly Glu Asp Trp Val 20 25 30

Phe Val Ser Ser Lys Asp Ala Asp Leu Thr Asp Thr Ala Gln Thr Arg
35 40 45

Ala Leu Pro Glu Lys Val Gln Pro Thr His Val Ile His Leu Ala Ala 50 55 60

Met Val Gly Gly Leu Phe Arg Asn Ile Lys Tyr Asn Leu Asp Phe Trp 65 70 75 80

Arg	Lys	Asn	Val	His 85	Met	Asn	Asp	Asn	Val 90	Leu	His	Ser	Ala	Phe 95	Glu
Val	Gly	Ala	Arg 100	Lys	Val	Val	Ser	Cys 105	Leu	Ser	Thr	Суз	Ile 110	Phe	Pro
Asp	Lys	Thr 115	Thr	Tyr	Pro	Ile	Asp 120	Glu	Thr	Met	Ile	His 125	Asn	Gly	Pro
Pro	His 130	Asn	Ser	Asn	Phe	Gly 135	Tyr	Ser	Tyr	Ala	Lys 140	Arg	Met	Ile	Asp
Val 145	Gln	Asn	Arg	Ala	Tyr 150	Phe	Gln	Gln	Tyr	Gly 155	Суз	Thr	Phe	Thr	Ala 160
Val	Ile	Pro	Thr	Asn 165	Val	Phe	Gly	Pro	His 170	Asp	Asn	Phe	Asn	Ile 175	Glu
Asp	Gly	His	Val 180	Leu	Pro	Gly	Leu	Ile 185	His	Lys	Val	His	Leu 190	Ala	Lys
Ser	Ser	Gly 195	Ser	Ala	Leu	Thr	Val 200	Trp	Gly	Thr	Gly	Asn 205	Pro	Arg	Arg
Gln	Phe 210	Ile	Tyr	Ser	Leu	Asp 215	Leu	Ala	Gln	Leu	Phe 220	Ile	Trp	Val	Leu
Arg 225	Glu	Tyr	Asn	Glu	Val 230	Glu	Pro	Ile	Ile	Leu 235	Ser	Val	Gly	Glu	Glu 240
Asp	Glu	Val	Ser	Ile 245	Lys	Glu	Ala	Ala	Glu 250	Ala	Val	Val	Glu	Ala 255	Met
Asp	Phe	His	Gly 260	Glu	Val	Thr	Phe	Asp 265	Thr	Thr	Lys	Ser	Asp 270	Gly	Gln
Phe	Lys	Lys 275	Thr	Ala	Ser	Asn	Ser 280	Lys	Leu	Arg	Thr	Tyr 285	Leu	Pro	Asp
Phe	Arg	Phe	Thr	Pro	Phe	Lys	Gln	Ala	Val	Lys	Glu	Thr	Суз	Ala	Trp

Phe Thr Asp Asn Tyr Glu Gln Ala Arg Lys 305 310